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NOTICE OF ALLOWANCE AND FEE(S) DUE

20786 7590 01/27/2010

KING & SPALDING 1180 PEACHTREE STREET, NE ATLANTA, GA 30309-3521 EXAMINER
CHUNG, SUSANNAH LEE

PAPER NUMBER

ART UNIT

DATE MAILED: 01/27/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,264	09/30/2005	Eric Francis Morand	BDW003	1609

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 04/27/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

TITLE OF INVENTION: THERAPEUTIC MOLECULES AND METHODS-1

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notification	ons.							
CURRENT CORRESPONDED	NCE ADDRESS (Note: Use Bi	ock I for any	y change of address)	N Fo pa	ote: A certificate of ee(s) Transmittal. Th spers. Each additions eve its own certificate	mailin is certi il paper e of ma	g can only be used fo licate cannot be used f , such as an assignme iling or transmission.	r domestic mailings of the or any other accompanying nt or formal drawing, mus
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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/517,264	09/30/2005			Eric Francis Morand		•	BDW003	1609
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APPLN, TYPE	SMALL ENTITY		E FEE DUE	PUBLICATION FEE DU		E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300			\$1810	04/27/2010
EXAMI	NER	Al	RT UNIT	CLASS-SUBCLASS				
CHUNG, SUSA			I626	514-385000				
Change of corresponder CFR 1.563, Change of corresponder CFR 1.563, Change of correspon Address form PTO/SB/ — Tee Address' indic PTO/SB/47; Rev 03-02 Number is required. ASSIGNEE NAME AN PI_EASE NOTE: Unlet recordation as set forth (A) NAME OF ASSIGNAME	ndence address (or Cha 122) attached. tation (or "Fee Address or more recent) attach TD RESIDENCE DATA ss an assignee is ident in 37 CFR 3.11. Comp	nge of Co "Indication ed. Use o	orrespondence on form of a Customer PRINTED ON		to 3 registered pater tively, gle firm (having as a r agent) and the nam torneys or agents. If se printed. type) patent. If an assign n assignment.	a memb nes of u no nan	er a 2p to p to see is 3	ocument has been filed for
Please check the appropria	tte assignee category or	categorie	es (will not be p	rinted on the patent):	Individual C	orporat	ion or other private gro	up entity Government
4a. The following fee(s) an Issue Fee Publication Fee (No	small entity discount p	permitted)		b. Payment of Fee(s): (PI A check is enclosed Payment by credit of The Director is here overpayment, to De	ard. Form PTO-2038	B is att	iched.	shown above) ficiency, or credit any n extra copy of this form).
5. Change in Entity Statu a. Applicant claims	SMALL ENTITY state	is. See 37		☐ b. Applicant is no le				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requestroids of the United Sta	uired) wil tes Patent	I not be accepte t and Trademark	d from anyone other that Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party ir
Authorized Signature _					Date			
Typed or printed name					Registration N			
This collection of informat an application. Confidentis submitting the completed this form and/or suggestion Box 1450, Alexandria, Vir Alexandria, Virginia 2231.	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.311 U.S.C. 1: USPTO. rden, shoo NOT SE	. The informati 22 and 37 CFR Time will vary ald be sent to th END FEES OR	on is required to obtain on 1.14. This collection is a depending upon the interest of the complex of the comple	r retain a benefit by estimated to take 12 lividual case. Any co icer, U.S. Patent and TO THIS ADDRES:	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, includin is on the amount of tir nark Office, U.S. Dep D TO: Commissioner	by the USPTO to process g gathering, preparing, and ne you require to complete utment of Commerce, P.O. For Patents, P.O. Box 1450

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KING & SPALDING			CHUNG, SUSANNAH LEE			
1180 PEACHTREE STREET , NE ATLANTA, GA 30309-3521			ART UNIT	PAPER NUMBER		
			1626			

DATE MAILED: 01/27/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 345 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 345 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/517.264 MORAND ET AL. Notice of Allowability Examiner Art Unit SUSANNAH CHUNG 1626 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 1/13/10. The allowed claim(s) is/are 1-2, 18-19, 23, 26-29 and 41-43 (now claims 1-12). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment

Paper No./Mail Date

of Biological Material

4. T Examiner's Comment Regarding Requirement for Deposit

Other .

8. X Examiner's Statement of Reasons for Allowance

Application/Control Number: 10/517,264

Art Unit: 1626

DETAILED ACTION

Claims 1-2, 18-19, 23, 26-29, and 41-43 are pending in the instant application.

Claims 3-17, 20-22, 24-25, and 30-40 have been canceled.

Response

Applicant's response and amendment to the claims filed on 1/13/2010 are acknowledged. The rejections and objections made in the previous office action are withdrawn in view of the amendment to the claims and response. The double patenting rejection is withdrawn in view of the instant application being senior to the copending application.

Reasons for Allowance

The present invention is directed to a method of using benzimidazole compounds to inhibit MIF and treat rheumatoid arthritis. The expression and/or release of MIF can be induced by glucocorticoids andMIF is able to directly antagonize the effects of glucocorticoids. See instant specification page 3, approximately lines 22-23. The instantly claimed compounds can inhibit MIF. See instant specification pages 92-109, wherein in vitro and in vivo assay data of MIF antagonism alone and in the presence of glucocorticoid is provided with the percent inhibition. See Tables 1-5, starting on page 93. The effects of the instantly claimed compounds in murine antigen induced arthritis is provided. See instant specification page 102-109. Further see Table 6. Support for the use of the instantly claimed compounds in the inhibition of MIF and treatment of rheumatoid arthritis can be found in Schacke et al., Expert Opin. Ther. Patents, 2008, 18(3), 339-352, especially page 343.

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Art Unit: 1626

The closest prior art of record is US Pat No 2,418,925, which teaches the claimed compounds, but not the method of using the compounds to inhibit MIF and treat rheumatoid arthritis associated with MIF. Therefore, the instantly claimed methods are allowable over the prior art.

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susannah Chung whose telephone number is (571) 272-6098. The examiner can normally be reached on M-F, 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Susannah Chung/ Examiner, Art Unit 1626